AMENDMENTS TO THE CLAIMS:

Claim 15. (Original) A method of forming an N-channel metal oxide semiconductor (NMOS) driver circuit, comprising:

forming a boost gate stack on a substrate, said boost gate stack having a source and drain formed by a low concentration N-type implantation; and coupling an N-driver to said boost gate stack.

- Claim 16. (Currently Amended) A method according to claim 15, further comprising: forming a contacts adjacent sides of said boost gate stack for coupling said boost gate stack to said N-driver.
- Claim 17. (Currently Amended) The method according to claim 16, wherein said boost gate stack is formed adjacent to a memory array, said low concentration N-type implantation comprising being a memory array implantation.
- Claim 18. (Original) The method according to claim 15, wherein said low concentration N-type implantation improves a reliability of said driver circuit by increasing a junction breakdown voltage and lowering a contact resistance thereof.
- Claim 19. (Original) The method according to claim 16, wherein said contacts comprise memory array bitline contacts.
- Claim 20. (Currently Amended) The method according to claim 19, wherein said bitline contacts comprise are formed of polysilicon.
- Claim 21. (Currently Amended) The method according to claim 20, wherein said bitline contacts <u>comprise</u> are formed of N-type doped polysilicon <u>contacts</u>, and the dopants are annealed and driven into said substrate to reduce the contact resistance.

- Claim 22. (Currently Amended) The according to claim 15, wherein contacts are formed adjacent first and second sides of said boost gate stack.
- Claim 23. (Original) The method according to claim 15, wherein said boost gate stack forms a boost device, said boost device having a channel length which is greater than a minimum channel length, said minimum channel length being a lithographically patternable feature size.
- Claim 24. (Original) The method of forming an NMOS driver circuit according to claim 15, further comprising:

forming a main wordline driver coupled to a plurality of sub-array drivers, each of said plurality of sub-array drivers coupled to a corresponding boost gate stack.

- Claim 25. (Currently Amended) The method according to claim 24, wherein a boost node of said each boost gate stack is connected to a corresponding gate of said sub-array drivers.
- Claim 26. (Original) The method according to claim 25, wherein a distance from an edge of said low concentration N-type implantation to an N diffusion area of a device junction is a minimum ground rule, and

wherein a distance from an edge of said low concentration N-type implantation to an edge of an adjacent pull-up device is also a minimum ground rule.

- Claim 27. (Original) The method according to claim 15, wherein said contacts comprise doped polysilicon contacts, and wherein said doped polysilicon contacts and said source and drain are self-aligned to the boost gate stack.
- Claim 28. (Currently Amended) The method according to claim 21, wherein said doped polysilicon contacts <u>form</u> forms a self-aligned junction with said boost gate stack.

Claim 29. (Currently Amended) <u>A</u> The method of forming an N-channel metal oxide semiconductor (NMOS) driver circuit, comprising:

forming a boost gate stack on a substrate adjacent to a memory array;

using a low-concentration N-type implantation to form a source and drain in said substrate for said boost gate stack; and

coupling an N-driver to said boost gate stack.

- Claim 30. (Original) The method according to claim 29, further comprising: forming contacts adjacent said gate stack.
- Claim 31. (Original) A method of fabricating an N-channel metal oxide semiconductor (NMOS) driver circuit, comprising:

forming a shallow trench isolation (STI) and a gate on a substrate, said gate forming a portion of a boost device for the driver circuit;

forming a source and a drain for said boost device by a low concentration N-type implantation;

depositing a layer of dielectric adjacent said boost device;

patterning said dielectric layer;

forming contacts in said patterned area of said dielectric layer;

annealing said contacts; and

connecting a boost node of said boost device to a gate of a sub-array device.

- Claim 32. (Original) The method as claims in claim 31, wherein said sub-array device is adjacent to and contacts said boost device.
- Claim 33. (Currently Amended) A method as claims in claim 31, wherein said contacts comprise are formed in a self-aligned contacts manner.
- Claim 34. (Original) The method as claims in claim 31, wherein said boost device has a

channel length which is greater than a minimum channel length as determined by a design rule.

Claim 35. (Original) The method as claimed in claim 32, wherein said sub-array device has a channel length which is greater than a minimum channel length as determined by a design rule.

Claim 36. (Original) The method as claimed in claim 31, wherein a node of said boost device is connected to a gate of said sub-array device.

Please add the following new claims:

Claim 37. (New) The method according to claim 15, wherein said low concentration N-type implantation comprises no more that about 1×10^{14} dopant ions per cm³.

Claim 38. (New) The method according to claim 15, wherein said low concentration N-type implantation comprises about 1×10^{13} dopant ions per cm³ to 1×10^{14} dopant ions per cm³.

Claim 39. (New) The method according to claim 15, wherein said low concentration N-type implantation comprises one of phosphorus ions and boron ions.